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#### NOTICE OF ALLOWANCE AND FEE(S) DUE

24737 7590 07/22/2010

PHILIPS INTELLECTUAL PROPERTY & STANDARDS P.O. BOX 3001

BRIARCLIFF MANOR, NY 10510

EXAMINER SAINT CYR, LEONARD

PAPER NUMBER ARTHNIT

2626 DATE MAILED: 07/22/2010

| APPLICATION NO.                  | FILING DATE | FIRST NAMED INVENTOR             | ATTORNEY DOCKET NO. | CONFIRMATION NO. |  |  |  |  |
|----------------------------------|-------------|----------------------------------|---------------------|------------------|--|--|--|--|
| 10/501,426                       | 07/13/2004  | Javier Francisco Aprea NL 020026 |                     | 7432             |  |  |  |  |
| TITLE OF INVENTION: AUDIO CODING |             |                                  |                     |                  |  |  |  |  |

| APPLN. TYPE    | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE   |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO           | \$1510        | \$300               | \$0                  | \$1810           | 10/22/2010 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED.</u> THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

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B. If the status above is to be removed, check box 5b on Part B -Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

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II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

| appropriate. All further<br>indicated unless corrects<br>maintenance fee notifica  | correspondence includir<br>ed below or directed oth  | ng the Patent, advance of<br>nerwise in Block 1, by (  | rders and notification of<br>a) specifying a new corre  | maintenance fees w<br>spondence address;   | ill be<br>and/o                              | mailed to the current<br>or (b) indicating a sepa  | correspondence address as<br>trate "FEE ADDRESS" for   |
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| P.O. BOX 3001  | 7590 07/22<br>ELLECTUAL PRO<br>MANOR, NY 10510   | OPERTY & STAN  | JDARDS 15   | Cer  | tificat                                      | e of Mailing or Trans  |  |
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|  |  |  | _   |  |  |  | (Signature)  |
|  |  |  |   |  |  |  | (Date)   |
| APPLICATION NO.  | FILING DATE  |  | FIRST NAMED INVENTOR  | ₹  | ATTC   | ORNEY DOCKET NO.   | CONFIRMATION NO.   |
| 10/501,426<br>TITLE OF INVENTION   | 07/I3/2004<br>: AUDIO CODING   |  | Javier Francisco Aprea  |  |  | NL 020026  | 7432   |
| APPLN, TYPE  | SMALL ENTITY   | ISSUE FEE DUE  | PUBLICATION FEE DUE   | PREV. PAID ISSUE   | S FEE  | TOTAL FEE(S) DUE   | DATE DUE   |
| nonprovisional   | NO   | \$1510   | \$300   | \$0  |  | \$1810   | 10/22/2010   |
| EXAM   | IINER  | ART UNIT   | CLASS-SUBCLASS  | 1  |  |  |  |
| SAINT CYR  | , LEONARD  | 2626   | 704-205000  | _  |  |  |  |
| "Fee Address" ind<br>PTO/SB/47; Rev 03-0<br>Number is required.  3. ASSIGNEE NAME A  | ondence address (or Cha<br>3/122) attached.<br>ication (or "Fee Address<br>12 or more recent) attach<br>ND RESIDENCE DAT/<br>less an assignee is ident<br>h in 37 CFR 3.II. Comp | inge of Correspondence "Indication form and. Use of a Customer A TO BE PRINTED ON  | 2. For printing on the (1) the names of up to a gents OR, alternat (2) the name of a sing registered attorney or 2 registered patent attorney or 1 the printing of the printi | po 3 registered patentively, the firm (having as a agent) and the name or agents. If a printed.  pe) patent. If an assignment. | memb<br>es of u<br>no nan                    | per a 2  | ocument has been filed for   |
| Please check the appropr   | iate assignee category or  | categories (will not be p  | rinted on the patent):  | Individual Co  | orporat                                      | ion or other private gro   | oup entity Government  |
| Advance Order -  | wo small entity discount p   | permitted)   | b. Payment of Fee(s): (Ple     A check is enclosed.     Payment by credit ca     The Director is hereb     overpayment, to Dep  | rd. Form PTO-2038  | is att                                       | ached.   | shown above) ficiency, or credit any n extra copy of this form).   |
| - 11   | s SMALL ENTITY state   | as. See 37 CFR 1.27.   | ☐ b. Applicant is no los  |  |  |  |  |
| NOTE: The Issue Fee an<br>interest as shown by the   | d Publication Fee (if req<br>records of the United Sta   | uired) will not be accepte<br>ites Patent and Trademark  | d from anyone other than<br>k Office.   | the applicant; a regi  | stered                                       | attorney or agent; or th   | ne assignee or other party in  |
| Authorized Signature   |  |  |   | Date   |  |  |  |
| Typed or printed nam   |  |  |   | Registration N   |  |  |  |
| This collection of inform<br>an application. Confiden<br>submitting the complete<br>this form and/or suggesti<br>Box 1450, Alexandria, V<br>Alexandria, Virginia 223 | nation is required by 37 C<br>tiality is governed by 35<br>d application form to the<br>ions for reducing this but<br>(irginia 22313-1450. DC<br>k13-1450.                       | FR 1.311. The informatic<br>U.S.C. 122 and 37 CFR<br>USPTO. Time will vary<br>rden, should be sent to the<br>ONOT SEND FEES OR | on is required to obtain or<br>1.14. This collection is es<br>depending upon the indi<br>the Chief Information Offic<br>COMPLETED FORMS T   | retain a benefit by the<br>stimated to take 12 revidual case. Any co-<br>er, U.S. Patent and<br>O THIS ADDRESS                 | he pub<br>minute<br>mmen<br>Trader<br>S. SEN | lic which is to file (and<br>s to complete, including<br>ts on the amount of time<br>mark Office, U.S. Dep<br>D TO: Commissioner | I by the USPTO to process)<br>ig gathering, preparing, and<br>me you require to complete<br>artment of Commerce, P.O.<br>for Patents, P.O. Box 1450, |

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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



# UNITED STATES PATENT AND TRADEMARK OFFICE

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DATE MAILED: 07/22/2010

| APPLICATION NO. | FILING DATE    | FIRST NAMED INVENTOR   | ATTORNEY DOCKET NO. | CONFIRMATION NO. |  |  |
|-----------------|----------------|------------------------|---------------------|------------------|--|--|
| 10/501,426      | 07/13/2004     | Javier Francisco Aprea | NL 020026           | 7432             |  |  |
| 24737 7         | 590 07/22/2010 |                        | EXAMINER            |                  |  |  |
| PHILIPS INTEL   | LECTUAL PROPER | SAINT CYR, LEONARD     |                     |                  |  |  |
| P.O. BOX 3001   |                | ART UNIT               | PAPER NUMBER        |                  |  |  |
| BRIARCLIFF MA   | ANOR, NY 10510 | ,                      | 2626                |                  |  |  |

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 886 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 886 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

# Application No. Applicant(s) 10/501,426 APREA ET AL. Notice of Allowability Examiner Art Unit LEONARD SAINT CYR 2626 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to 04/27/10. The allowed claim(s) is/are 1-13. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) ☐ Some\* c) ☐ None of the: 1. A Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). \* Certified copies not received: \_\_\_\_\_. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. X Examiner's Amendment/Comment Paper No./Mail Date 04/01/10 4. ☐ Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance of Biological Material 9. ☐ Other .

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# DETAILED ACTION

## EXAMINER'S AMENDMENT

 An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with applicant's representative, Edward W. Goodman on 07/08/10

The application has been amended as follows:

In claim 3, line 1, replace "claim 1 or claim 2" by - claim 1-.

Claims 14 - 16 have been cancelled.

# Allowable Subject Matter

 Claims 1 – 13 are allowed over the prior art of record. The following is an examiner's statement of reasons for allowance:

As per claims 1 – 12, neither Fielder, nor Sasaki et al., teach or suggest encoding, via an encoder implemented in hardware, the audio data of the input data stream signal, for an integer number of N audio frames of the audio data, to have a mean effective audio frame length F that equals a video frame length over an integer number of M frames of a sequence of video data, where fv equals a video frame rate of the video data, wherein the encoding includes varying, using the encoder

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implemented in hardware, effective audio frame lengths F of the audio frames per a respective audio frame index i in a defined sequence of effective audio frame lengths F(j) for the sequence of M frames of video data, wherein each respective audio frame, index i, has a structure that includes (i) a number of blocks in a head overlap H(i), (ii) a number of blocks in a tail overlap T(j), and (iii) a number of blocks in between the head overlap and the tail overlap equal to a total number of blocks in the audio frame k minus the quantity of the sum of the head overlap H(j) plus the tail overlap T(j), further wherein the head overlap comprises a length of only (a) overlap 0 or (b) overlap 0+1 long, which enables each audio frame to be tagged via a 1-bit tag to indicate its size and differentiate between short and long audio frames, and wherein each block of the audio frame is tagged via a 1-bit tag to indicate its redundancy so as to differentiate redundant and non-redundant blocks of the respective frame; and outputting a data stream signal that carries encoded audio and video data, wherein the output data stream signal can be spliced at each video frame of the sequence of M video frames without degradation to audio information of the audio data of corresponding audio frames.

As per claim 13, neither Fielder, nor Sasaki et al., teach or suggest encoding, via an encoder implemented in hardware, audio samples of N quasi video-matched audio frames of the input data stream signal into frames with a defined sequence of overlap lengths, wherein the encoded audio samples have a mean effective audio frame length F that equals a video frame length over an integer number of M frames of a sequence of the video data, where fv equals a frame rate of the video data, wherein an effective

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length of the defined sequence of overlap lengths of the encoded, audio frames coincides with a length of a sequence of M video frames, where M and N are positive integers, wherein the encoding includes varying, using the encoder implemented in hardware, effective audio frame lengths F of the audio frames per a respective audio frame index j in a defined sequence of effective audio frame lengths F(i) for the sequence of M frames of video data, wherein each respective audio frame, index i, has a structure that includes (i) a number of blocks in a head overlap H(i), (ii) a number of blocks in a tail overlap T(j), and (iii) a number of blocks in between the head overlap and the tail overlap equal to a total number of blocks in the audio frame k minus the quantity of the sum of the head overlap H(j) plus the tail overlap T(j), further wherein the head overlap comprises a length of only (a) overlap O or (b) overlap 0+i long, which enables each audio frame to be tagged via a 1-bit tag to indicate its size and differentiate between short and long audio frames, and wherein each block of the audio frame is tagged via a 1-bit tag to indicate its redundancy so as to differentiate redundant and non-redundant blocks of the respective frame; and outputting a data stream signal that carries encoded audio and video data, wherein the output data stream signal can be spliced at each video frame of the sequence of M video frames without degradation to audio information of the audio data of corresponding audio frames.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LEONARD SAINT CYR whose telephone number is (571) 272-4247. The examiner can normally be reached on Mon-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richemond Dorvil can be reached on (571) 272-7602. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at (866) 217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or (571) 272-1000.

LS

07/08/10

/Leonard Saint-Cvr/

Examiner, Art Unit 2626

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